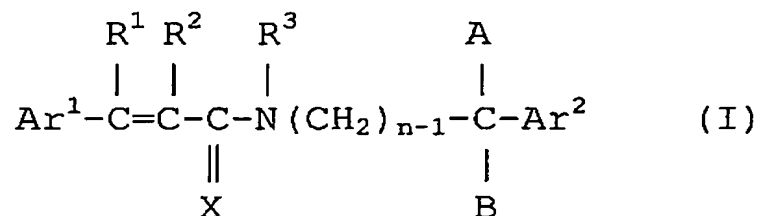


CLAIMS

1. A phosphodiesterase IV inhibitor comprising as an active ingredient a pyridylacrylamide derivative represented by the following formula (I):



wherein

Ar^1 represents a substituted or unsubstituted pyridyl group;

Ar^2 represents a substituted phenyl group that is substituted with at least 1 to 3 substituents selected from the group consisting of a C_{1-6} alkoxy group, a C_{2-6} alkenyloxy group, an aralkyloxy group, and an aryloxy group;

R^1 represents a hydrogen atom, a C_{1-6} alkyl group, or an aryl group;

R^2 represents a hydrogen atom, a C_{1-6} alkyl group, a cyano group, or a C_{1-6} alkoxy-carbonyl group;

R^3 represents a hydrogen atom or an optionally substituted C_{1-6} alkyl group;

X represents an oxygen atom or a sulfur atom;

A and B are the same or different from each other, and each independently represents a hydrogen atom, a hydroxyl group, a C_{1-6} alkoxy group or a C_{1-6} alkylthio group, or A and B together represent an oxo group, a thioxo group, a group represented by the following formula:



wherein Y represents a di-(C_{1-6} alkyl) amino group, a hydroxyl group, an aralkyloxy group, or a C_{1-6} alkoxy group, or a group represented by the following formula:



wherein, Z^1 and Z^2 are the same or different from each other, and each independently represents an oxygen atom, a sulfur atom, or an imino group that may be optionally substituted

with a C₁₋₆ alkyl group; and M represents an alkylene group having 2 to 4 chain members or a 1,2-phenylene group, or

A may be a hydroxyl group and B may be a 1-C₁₋₆ alkyl-imidazol-2-yl group; and
n represents an integer from 1 to 3,

or a pharmaceutically acceptable salt thereof.

2. The phosphodiesterase IV inhibitor according to claim 1, wherein in the formula (I), Ar¹ represents a substituted or unsubstituted pyridyl group; Ar² represents a substituted phenyl group that is substituted with at least 1 to 3 substituents selected from the group consisting of a C₁₋₆ alkoxy group, a C₂₋₆ alkenyloxy group, an aralkyloxy group, and an aryloxy group; R¹ represents a hydrogen atom, a C₁₋₆ alkyl group, or an aryl group; R² represents a hydrogen atom, a methyl group, a cyano group, or a C₁₋₆ alkoxy-carbonyl group; R³ represents a hydrogen atom or an optionally substituted C₁₋₃ alkyl group; X represents an oxygen atom or a sulfur atom; A and B each independently represents a hydrogen atom, or A and B together represent an oxo group; provided that when A and B each independently represents a hydrogen atom, then n represents 1 or 2, and when A and B together represent an oxo group, then n represents 2.

3. The phosphodiesterase IV inhibitor according to claim 2, wherein in the formula (I), Ar² represents a substituted phenyl group that is substituted with 1 to 3 C₁₋₆ alkoxy groups, and R³ represents a C₁₋₃ alkyl group.

4. The phosphodiesterase IV inhibitor according to claim 1, wherein in the formula (I), a substituted phenyl group represented by Ar² is further substituted with at least one member selected from the group consisting of a halogen atom, a hydroxyl group, an optionally substituted amino group, a substituted C₁₋₆ alkoxy group, an optionally substituted C₁₋₆ alkyl group, an aryl group, a C₁₋₆ alkylthio group, a carboxyl group, a C₁₋₆ alkoxy-carbonyl group, a sulfamoyl group and a group -O-CO-R⁴ (where R⁴ represents a C₁₋₆ alkyl group, an aryl group, a C₁₋₆ alkoxy group, or an optionally substituted amino group).

5. The phosphodiesterase IV inhibitor according to claim 1, which is a preventive or therapeutic agent for a phosphodiesterase IV-involving disease selected from the group consisting of bronchial asthma, chronic bronchitis, atopic dermatitis, hives, allergic rhinitis, conjunctivitis, rheumatoid arthritis, gonarthrosis, septicemia, ulcerative colitis, manic-depressive psychosis, schizophrenia and Crohn's disease.